

**IN THE UNITED STATES PATENT AND TRADEMARK OFFICE  
APPLICATION FOR UNITED STATES LETTERS PATENT**

INVENTOR(S): Robert Breslow  
2356 N. Damen Avenue  
Chicago, Illinois 60647  
US

Monica J. Breslow  
2356 N. Damen Avenue  
Chicago, Illinois 60647  
US

BOTH CITIZENS OF THE UNITED STATES

TITLE: **FROZEN ADDITIVE FOR USE WITH A HEATED  
BEVERAGE**

ATTORNEY(S): Joseph H. Paquin, Jr.  
Margaret M. Duncan  
John G. Bisbikis  
Matthew E. Leno  
Stephen T. Scherrer  
Patrick D. Richards  
Gilberto Hernandez  
Joy Ann G. Serauskas (Patent Agent)  
MCDERMOTT, WILL & EMERY  
227 West Monroe Street  
Chicago, IL 60606-5096  
tel. no. (312) 372-2000/fax no. (312) 984-7700

## **FROZEN ADDITIVE FOR USE WITH A HEATED BEVERAGE**

### **Technical Field**

The present subject matter relates to a frozen additive for use with a heated  
5 beverage. More specifically, the present subject matter relates to a frozen flavored  
additive for cooling a heated beverage.

### **Background**

Heated beverages, such as, for example coffee, tea or hot chocolate, were often  
served at a temperature that was higher than desired by consumers for consumption. In  
10 order to avoid discomfort, or even injury, it was often necessary to cool a heated  
beverage prior to consumption. There were two common procedures for cooling  
beverages. The first method was to allow the beverage to cool towards the ambient  
temperature over a period of time. One problem associated with this first method was the  
length of time required to cool the beverage. The second method was to insert ice cubes  
15 into the beverage to rapidly reduce the temperature of the heated beverage.  
Unfortunately, this second method resulted in dilution of the heated beverage.

### **Summary**

The present subject matter discloses a frozen additive for use with a heated  
beverage. The frozen additive may be approximately the same concentration of  
20 ingredients as the heated beverage to enable the frozen additive to cool the heated  
beverage without substantially diluting the heated beverage. Alternatively, the frozen  
additive may comprise a substantially higher concentration as the heated beverage to give  
the beverage a concentration boost while cooling. In another embodiment, the frozen

additive may utilize different ingredients to alter the flavor or content of the ingredients in the heated beverage as it is cooled. In yet another embodiment, the frozen additives may be packaged with ingredients used to make the heated beverage. The present subject matter further relates to a method of cooling a heated beverage with any of the above-mentioned frozen additives.

### **Brief Description of Drawings**

Fig. 1 is a perspective view of a frozen additive and a heated beverage.

Fig. 2 is a perspective view of a tray for delivering frozen additives.

Fig. 3 is a flow chart depicting a method of utilizing a frozen additive with a

heated beverage

### **Detailed Description**

Fig. 1 illustrates a heated beverage 10 in a container 12. The heated beverage 10 shown in Fig. 1 is coffee. However, for purposes of the present subject matter the heated beverage 10 may alternatively be any flavored beverage (*i.e.*, not simply water) that may be consumed at a temperature above the ambient temperature, such as, for example, espresso, latte, cappuccino, mocha, apple cider, hot chocolate, tea, etc.

As commonly occurs when preparing the heated beverage 10 for consumption, the temperature of the heated beverage 10 is often raised above the desired consumption temperature. Raising the temperature of the heated beverage beyond the desired temperature may occur intentionally or unintentionally. It is recognized that the temperature desired for consumption is subjective and, accordingly, may vary from person to person. Therefore, even if the heated beverage 10 is raised to a predetermined temperature, that temperature may exceed the desired temperature for a particular use or

consumer. It is further recognized that the desired temperature may fall within a range of temperatures and often does not lend itself to precise calculation.

Fig. 1 further illustrates a frozen additive 14 for use with the heated beverage 10.

While the frozen additive 14 depicted in Fig. 1 is substantially in the form of a cube, any

5 shape that will accomplish the goals of this invention is contemplated. The frozen

additive 14 shown in Fig. 1 is a coffee based frozen additive 14 made from substantially

the same composition of ingredients as the heated beverage 10. The frozen additive 14

may be combined with the heated beverage 10 to lower the temperature of the heated

beverage 14 towards a desired temperature. Unlike using ice cubes to cool the heated

10 beverage 10, use of the frozen additive 14 does not substantially dilute the heated

beverage 10 from its initial concentration. In order to maximize the cooling benefits and

minimize the dilution of the heated beverage, it may be desirable to prepare the heated

beverage 10 and the frozen additive 14 from a single source of ingredients. Depending

upon the temperature of the heated beverage 10, one or more of the frozen additives 14

15 may be added to the heated beverage 10 to bring the temperature of the heated beverage

10 to the desired temperature or into the desired range of temperatures without

significantly altering the composition of the heated beverage 10.

While the frozen additive 14 shown in Fig. 1 is frozen coffee, the frozen additive

14 may be made from any composition of ingredients, including any beverage that may

20 be consumed after being heated, such as, for example, espresso, latte, cappuccino, mocha,

apple cider, hot chocolate, tea, etc. To maintain the benefit of not diluting or

substantially altering the concentration of the heated beverage 10, the frozen additive 14

can be made from approximately the same ingredients as the heated beverage 10. For

example, a tea based frozen additive 14 could be mixed with a tea based heated beverage 10. It is recognized that an identical match of ingredients and composition of ingredients is not required to enjoy the benefits of the present invention. For example, it has been determined that combining an espresso based frozen additive 14 with a coffee based heated beverage 10 does not substantially alter the composition of the heated beverage 10. In other words, combining the coffee based heated beverage 10 and the espresso based frozen additive 14 forms a beverage having a concentration of ingredients that is substantially the same as the concentration of ingredients in the initial coffee based heated beverage 10.

Alternatively, the frozen additive 14 may be made from a beverage other than what is used as the heated beverage 10. As a result of using different frozen additive 14, various flavors or ingredients may be added to the heated beverage 10. For example, it may be desirable to combine a flavored frozen additive 14 with a coffee based heated beverage 10, thereby adding flavor to the heated beverage 10.

Additionally, the frozen additive 14 may be produced in varying concentrations to appeal to customers wanting to subtly affect the flavor and/or ingredients of the heated beverage 10 while substantially maintaining the composition of ingredients of the heated beverage 10. For example, a coffee based frozen additive 14 may be produced in “light,” “regular” and “strong” concentrations to enable one to increase or decrease the concentration of caffeine in a coffee based heated beverage 10. For example, a “strong” coffee frozen additive 14 may be used to increase the flavor and/or caffeine concentration in a coffee based heated beverage 10. Additionally, other flavors, vitamins or other ingredients could be incorporated into the frozen additive 14 to be used with the heated

beverage 10. For example, vitamin C, zinc, protein, creatine (or other health and exercise related supplements) may be incorporated into a frozen additive 14 to be used with a tea or apple based heated beverage 10 to provide a consumer with certain vitamins or minerals.

Fig. 2 illustrates a container 16 for storing the frozen additive 14 shown in Fig. 1.

The container 16 shown in Fig. 2 is an example of a package for storing a number of frozen additives 14 in a single package. The container 16 shown in Fig. 2 includes a tray portion 18, having a number of serving cups 20 for separating the frozen additives 14 one from the others. The size and shape of the container 16, as well as the number of serving cups 20, may vary as desired. The container 16 also includes a lid portion 22, which may be vacuum sealed to the tray portion 18 to maintain a seal along each of the serving cups 20. For illustrative purposes, the lid portion 22 of the container 16 in Fig. 2 does not cover two of the serving cups 20 to help demonstrate how the unsealed tray portion 18 appears in this embodiment of the container 16. As further shown in Fig. 2, the lid portion 22 may be weakened between the serving cups 20 such that the serving cups 20 may be individually exposed and removed from the container 16 without disturbing the seal of the remaining serving cups 20.

Depending upon the ingredients used, it may be possible to package the frozen additives 14 in the container 16 in an non-refrigerated and non-frozen state. A user of the frozen additives 14 would then place the container 16 or serving cups 20 removed from the container 16 in a freezer prior to use with a heated beverage 10. The serving cups 20 may comprise uniform concentration throughout the container or, alternatively, varying concentration to provide a variety pack.

It may be useful to package some or all of the ingredients used to make the heated beverage 10 in a kit that includes one or more prepackaged servings of the frozen additive 14 in a frozen, or unfrozen, state. For example, ground coffee used to make a the heated beverage 10 may be packaged in a kit with a container 16 comprising serving cups filled with coffee additive. The various frozen additives 14 may be used to tailor the flavor and/or concentration of the ingredients in the heated beverage 10. For example, ground coffee used to make a the heated beverage 10 may be packaged in a kit with coffee based frozen additives 14 of varying strengths to enable various combinations of the heated beverage 10 and the frozen additives 14 to be produced. Accordingly, a decaffeinated coffee based frozen additive 14 could be packaged with ingredients to make a caffeinated coffee based heated beverage 10. The decaffeinated coffee based frozen additive 14 could be used to dilute the strength of the caffeine concentration in the heated beverage 10. In another example, the frozen additives 14 packaged with the ingredients for making the heated beverage 10 may incorporate various flavors, such as vanilla, cocoa, hazelnut, etc. to enable production of heated beverages 10 of varying flavors.

Fig. 3 is a flow chart depicting a method of cooling a heated beverage 24 using the frozen additive 14 and the heated beverage 10 of the present subject matter. As shown in Fig. 3, the method of cooling a heated beverage 24 includes the step of providing a heated beverage 10 having a first concentration of ingredients 26. As further shown in Fig. 3, the method of cooling a heated beverage 24 includes the step of providing a frozen additive 14 having a second concentration of ingredients 28. The second concentration of ingredients may be approximately the same as the first

concentration of ingredients to prevent substantial dilution of the heated beverage 10.

The method of cooling a heated beverage 24 further includes the step of combining the heated beverage 10 and the frozen additive 14 forming a beverage having a third concentration of ingredients 30. As discussed above, when the frozen additive 14 is  
5 approximately the same concentration of ingredients as the heated beverage 10, the resulting concentration of ingredients in the resulting beverage 10 will be substantially the same as the initial concentration of ingredients in the heated beverage 10.

It should be noted that various changes and modifications to the presently preferred embodiments described herein will be apparent to those skilled in the art. Such  
10 changes and modifications may be made without departing from the spirit and scope of the present invention and without diminishing its attendant advantages.